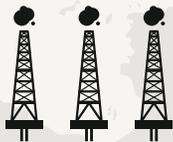


## OVER THE SEA AND FAR AWAY

How Ineos transports fracked gas (ethane, propane and butane) from shale basins in the USA to Europe

The shale-gas boom in the USA, triggered by the fracking technique, is spurring global warming. Fracked gases are also used as raw materials to make plastics. Ineos is Europe's biggest plastic producer. It has built its own infrastructure to bring the gas from America to Europe.

Over **10 000 fracking rigs** in Pennsylvania (tapped since 2005)



**8 ships** each the size of two football fields can transport up to **800 000 tonnes of ethane** a year



Atlantic Ocean

USA

**Houston**  
Texas

World's largest petrochemicals center

Link via the **Mariner East** pipeline to **Marcus Hook** export terminal near Philadelphia

**Ineos plant** in Grangemouth, Scotland: production of plastic pellets



Biggest ethane storage tank in Europe

**Ineos plant** in Rafnes, Norway: production of plastic pellets

**Antwerp**  
Belgium



According to current plans, Ineos will invest **3 billion euros** in the expansion of existing facilities and the first new **ethane cracker** in Europe in 20 years.

**Cologne**  
Germany

Further processing of the fracked gas to make petrochemical products